

WHAT IS CLAIMED IS:

1. A digital-driven display element comprising:

a light emitting element which emits light when an electric current is supplied thereto;

a driving transistor which controls the supply of the electric current to the light emitting element and is operated in a linear region; and

an electric current adjustment element which is connected to the light emitting element and the driving transistor in series, to adjust the electric current flowing through the light emitting element.

2. The display element according to claim 1, wherein

the electric current adjustment element is a transistor.

3. The display element according to claim 2, wherein

a signal same as that inputted to a gate electrode of the driving transistor is inputted to a gate electrode of the transistor.

4. The display element according to claim 2, wherein

a control signal for variably controlling the electric current flowing through the light emitting element is inputted to a gate electrode of the transistor.

5. A display device comprising the display elements according to claim 1 arranged in matrix

6. A display device comprising the display elements according to claim 2 arranged in matrix

7. A display device comprising the display elements according to claim 3 arranged in matrix

8. A display device comprising the display elements according to claim 4 arranged in matrix

9. A digital-driven display device comprising:

a plurality of pixel circuits, each of the plurality of pixel circuits comprising

a light emitting element which emits light when an electric current is supplied thereto, and

a driving transistor which controls the supply of the electric current to the light emitting element and is operated in a linear region; and

a power source line through which the electric current is supplied to the light emitting element of each pixel circuit,

the power source line branching from a first power source on a side of high electric potential to each pixel circuit at a first node, and converging from each pixel

circuit at a second node, and then being connected to a second power source on a side of low electric potential, and an electric current adjustment circuit which adjusts the electric current flowing through the light emitting element being disposed between the first node and the first power source.

10. The display device according to claim 9, wherein

when the electric current at the first node decreases, the electric current adjustment circuit increases the electric potential of the first node, in order to move an operating point of the driving transistor in a direction of increasing the electric current.

11. A digital-driven display device comprising:

a plurality of pixel circuits, each of the plurality of pixel circuits comprising

a light emitting element which emits light when an electric current is supplied thereto, and

a driving transistor which controls the supply of the electric current to the light emitting element and is operated in a linear region; and

a power source line through which the electric current is supplied to the light emitting element of each pixel circuit,

the power source line branching from a first power

source on a side of high electric potential to each pixel circuit at a first node, and converging from each pixel circuit at a second node, and then being connected to a second power source on a side of low electric potential, and an electric current adjustment circuit which adjusts the electric current flowing through the light emitting element being disposed between the second node and the second power source.

12. The display device according to claim 11, wherein

when the electric current at the second node decreases, the electric current adjustment circuit decreases the electric potential of the second node, in order to move an operating point of the driving transistor in a direction of increasing the electric current.

13. The display device according to claim 9, wherein

the electric current adjustment circuit is a transistor.

14. The display device according to claim 10, wherein

the electric current adjustment circuit is a transistor.

15. The display device according to claim 11, wherein

the electric current adjustment circuit is a transistor.

16. The display device according to claim 12, wherein

the electric current adjustment circuit is a transistor.

17. The display device according to claim 9, wherein  
the electric current adjustment circuit is a resistor  
element.

18. The display device according to claim 10, wherein  
the electric current adjustment circuit is a resistor  
element.

19. The display device according to claim 11, wherein  
the electric current adjustment circuit is a resistor  
element.

20. The display device according to claim 12, wherein  
the electric current adjustment circuit is a resistor  
element.